

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P459293

Luminaire Tested: **GALN-SA7C-735-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459293
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45516 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

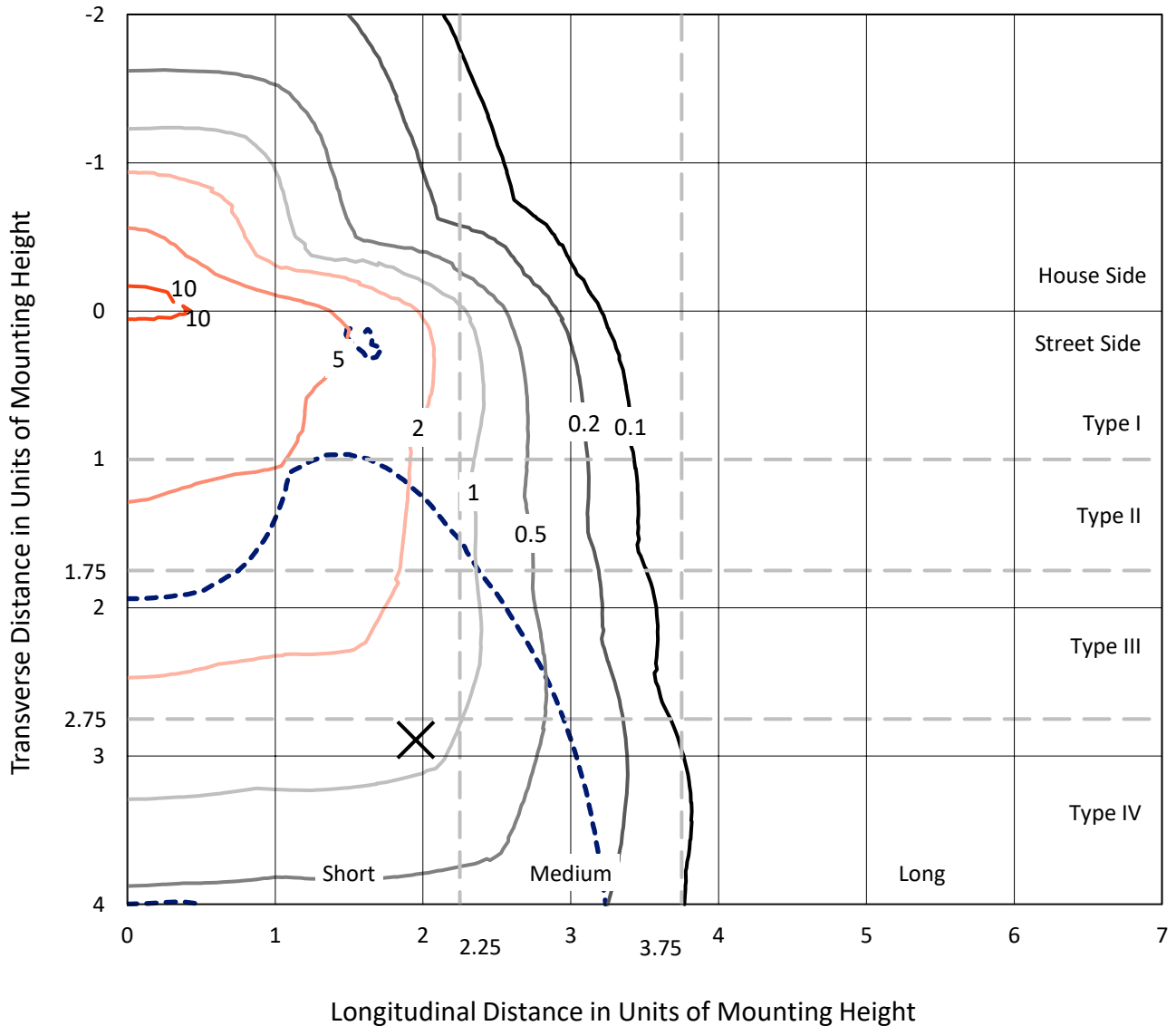
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459293
 CATALOG NUMBER: GALN-SA7C-735-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

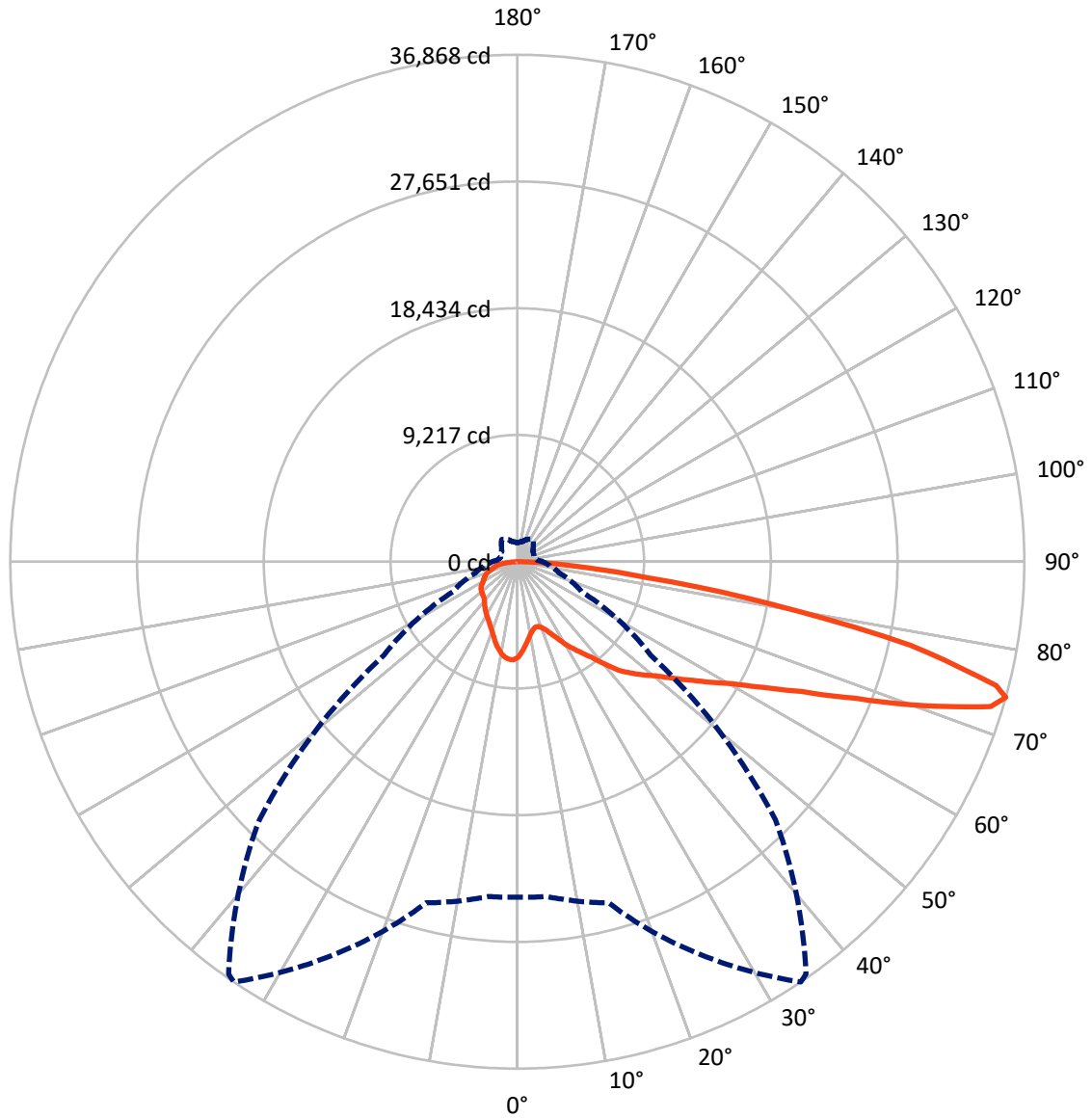
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P459293
CATALOG NUMBER: GALN-SA7C-735-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

REPORT NUMBER: P459293

CATALOG NUMBER: GALN-SA7C-735-U-T4FT

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9686.1	0.0	9686.1
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	35829.9	0.0	35829.9
	% Fixture	78.7	0.0	78.7
Total	Lumens	45516.0	0.0	45516.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	632.0	1.4
10°-20°	1730.1	3.8
20°-30°	2852.5	6.3
30°-40°	4272.7	9.4
40°-50°	6211.4	13.6
50°-60°	8675.9	19.1
60°-70°	10861.7	23.9
70°-80°	8981.8	19.7
80°-90°	1297.8	2.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	45516.0	100.0
0°-180°	45516.0	100.0

Coefficient of Utilization



REPORT NUMBER: P459293

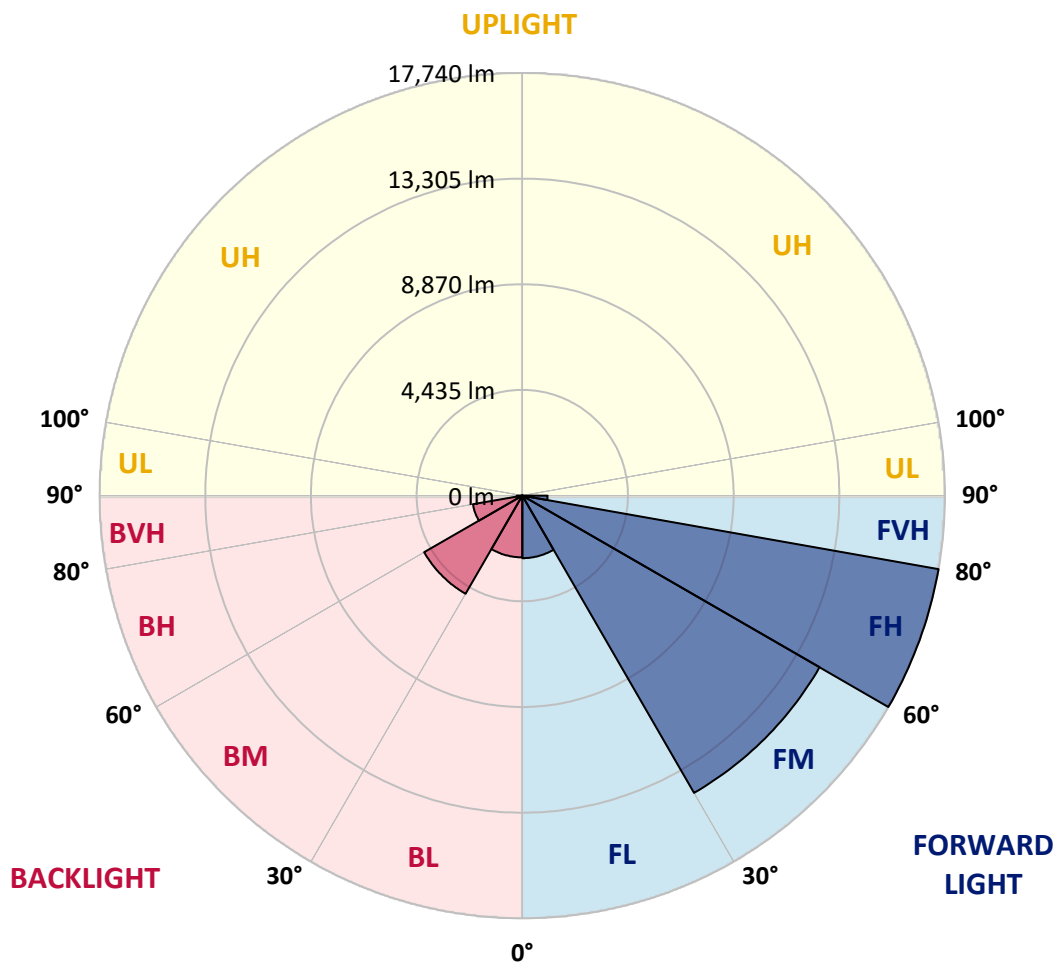
CATALOG NUMBER: GALN-SA7C-735-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2623.8	5.8			
FM	(30°-60°)	14403.1	31.6			
FH	(60°-80°)	17739.7	39.0			G5
FVH	(80°-90°)	1063.2	2.3			G5
BL	(0°-30°)	2590.9	5.7	B4/5000		
BM	(30°-60°)	4756.9	10.5	B3/5000		
BH	(60°-80°)	2103.8	4.6	B3/2500		G3/2500
BVH	(80°-90°)	234.6	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





REPORT NUMBER: P459293

CATALOG NUMBER: GALN-SA7C-735-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	6949.4	6949.4	6949.4	6949.4	6949.4	6949.4	6949.4	6949.4	6949.4	6949.4	6949.4
2.5°	6422.4	6455.2	6472.8	6535.9	6551.0	6571.2	6624.1	6694.7	6785.5	6866.2	6936.8
5°	5887.8	5938.3	5968.5	6024.0	6132.4	6142.5	6283.7	6445.1	6629.2	6800.6	6941.8
7.5°	5381.0	5436.5	5461.7	5562.5	5706.3	5729.0	5935.7	6190.4	6498.0	6757.8	6974.6
10°	5000.2	5028.0	5083.4	5159.1	5330.6	5345.7	5615.5	5955.9	6354.3	6737.6	7030.1
12.5°	4793.5	4808.6	4821.2	4901.9	5070.8	5093.5	5375.9	5761.7	6240.8	6752.7	7120.9
15°	4823.7	4828.8	4773.3	4788.4	4924.6	4957.4	5237.3	5633.1	6170.2	6790.5	7257.0
17.5°	5078.4	5060.8	4924.6	4854.0	4949.8	4964.9	5209.5	5582.7	6137.5	6861.1	7398.2
20°	5479.3	5454.1	5219.6	5063.3	5118.7	5131.4	5300.3	5620.5	6170.2	6977.1	7617.6
22.5°	5978.6	5968.5	5613.0	5423.9	5421.3	5421.3	5509.6	5756.7	6268.6	7136.0	7847.1
25°	6677.1	6624.1	6160.1	5915.6	5847.5	5842.4	5832.3	5981.1	6394.7	7304.9	8119.4
27.5°	7393.2	7302.4	6888.9	6513.2	6366.9	6349.3	6283.7	6298.8	6556.0	7496.6	8429.5
30°	8036.2	7978.2	7589.9	7173.8	6999.8	6959.5	6777.9	6694.7	6825.8	7842.0	8923.8
32.5°	8527.9	8492.6	8190.0	7811.8	7554.6	7547.0	7282.2	7214.2	7246.9	8260.6	9488.6
35°	8926.3	8938.9	8785.1	8457.3	8162.3	8119.4	7942.9	7857.2	7761.3	8865.8	10199.7
37.5°	9470.9	9498.7	9488.6	9206.2	8845.6	8855.7	8815.3	8674.1	8419.5	9541.5	10988.9
40°	10071.1	10091.2	10088.7	9980.3	9791.2	9801.3	9786.1	9624.8	9244.0	10401.4	11866.4
42.5°	10900.7	10804.8	10555.2	10663.6	10774.6	10822.5	10925.9	10772.1	10250.1	11319.2	12691.0
45°	11828.6	11647.0	11082.2	11132.6	11543.7	11634.4	12204.3	11992.5	11341.9	12373.2	13661.8
47.5°	12413.6	12234.6	11758.0	11747.9	12292.6	12380.8	13389.4	13311.3	12335.4	13510.5	14846.9
50°	12935.6	12910.3	12373.2	12501.8	13033.9	13165.0	14680.5	14607.3	13326.4	14851.9	16137.9
52.5°	13709.7	13505.4	13076.8	13341.5	14045.0	14216.5	15961.4	15747.1	14236.7	16037.1	17391.1
55°	14057.6	14009.7	13984.5	14214.0	15179.7	15303.3	17207.1	16715.4	15013.3	17040.6	18344.3
57.5°	14988.1	14899.8	15149.5	15305.8	16516.2	16705.3	18508.2	17726.5	15694.1	17837.4	18808.2
60°	16193.4	16145.5	16374.9	16657.4	18008.9	18296.4	19990.9	18588.9	16241.3	18238.4	18553.6
62.5°	17993.8	17988.7	17945.9	18551.0	20124.5	20389.3	21692.9	19428.5	16327.0	17938.3	17237.3
65°	20575.9	20485.1	20111.9	20772.5	22757.0	23067.1	23465.5	19897.6	15810.1	16397.6	14514.0
67.5°	23276.4	23271.4	22968.8	23826.1	26536.8	26857.0	25682.0	19794.2	14375.4	13283.5	10308.1
70°	25515.6	25407.1	25792.9	28077.5	31365.6	31736.2	27621.1	18576.3	11450.4	8772.5	6124.8
72.5°	26052.7	26057.7	26859.6	31355.5	36002.7	36060.7	28319.5	15056.2	7663.0	4838.9	3063.7
74°	24398.5	24441.4	25684.5	31519.4	36867.6	36605.3	26534.3	11833.6	5181.8	3159.5	2208.9
75°	22270.3	22000.5	23798.4	30427.5	35969.9	35687.5	24443.9	9496.2	3953.8	2524.1	1934.0
77.5°	11906.8	12181.6	14955.3	22706.6	29222.2	28897.0	16574.2	4553.9	2135.8	1757.5	1391.9
80°	4238.7	4675.0	6571.2	11881.5	18735.1	18836.0	7910.1	2087.8	1502.8	1296.1	983.4
82.5°	1729.8	1777.7	2821.6	5272.6	9513.8	9604.6	3230.1	1240.6	1074.2	892.6	587.5
85°	675.8	695.9	1248.2	2370.3	4059.7	4324.5	1117.0	655.6	660.6	511.9	300.1
87.5°	226.9	257.2	511.9	789.2	1379.3	1351.6	325.3	194.2	237.0	221.9	93.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P459293
 CATALOG NUMBER: GALN-SA7C-735-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6949.4	6949.4	6949.4	6949.4	6949.4	6949.4	6949.4	6949.4	6949.4	6949.4	6949.4
2.5°	6972.1	7020.0	7052.8	7088.1	7120.9	7130.9	7123.4	7146.1	7148.6	7151.1	7153.6
5°	7012.4	7078.0	7141.0	7176.3	7191.5	7178.9	7136.0	7113.3	7093.1	7078.0	7083.0
7.5°	7067.9	7161.2	7219.2	7234.3	7194.0	7136.0	7030.1	6946.9	6893.9	6858.6	6856.1
10°	7153.6	7244.4	7292.3	7249.5	7138.5	6997.3	6830.9	6674.5	6556.0	6520.7	6518.2
12.5°	7262.1	7365.4	7362.9	7236.8	7042.7	6790.5	6520.7	6339.2	6177.8	6097.1	6129.9
15°	7403.3	7481.4	7408.3	7181.4	6873.7	6528.3	6195.4	5948.3	5766.8	5681.1	5686.1
17.5°	7567.2	7635.3	7441.1	7083.0	6636.7	6192.9	5807.1	5572.6	5428.9	5365.9	5360.8
20°	7771.4	7791.6	7441.1	6911.6	6331.6	5802.1	5433.9	5270.0	5189.4	5156.6	5166.7
22.5°	7990.8	7950.4	7400.8	6669.5	5930.7	5393.6	5146.5	5073.4	5033.0	5028.0	5033.0
25°	8237.9	8124.4	7317.5	6341.7	5512.1	5040.6	4896.9	4909.5	4917.0	4917.0	4934.7
27.5°	8540.5	8313.6	7178.9	5928.2	5022.9	4712.8	4672.4	4760.7	4801.0	4808.6	4821.2
30°	8938.9	8520.3	6949.4	5411.2	4606.9	4417.8	4488.4	4606.9	4652.3	4680.0	4675.0
32.5°	9412.9	8747.3	6639.2	4894.3	4271.5	4211.0	4296.7	4417.8	4468.2	4483.3	4463.1
35°	9970.2	9004.5	6230.8	4410.2	3979.0	4014.3	4115.2	4153.0	4198.4	4198.4	4208.5
37.5°	10570.3	9211.2	5731.5	3966.4	3752.1	3880.7	3953.8	3918.5	3898.3	3873.1	3885.7
40°	11180.6	9365.0	5083.4	3527.6	3525.1	3742.0	3762.2	3661.3	3580.6	3555.4	3542.8
42.5°	11712.6	9460.9	4498.4	3187.2	3310.8	3605.8	3620.9	3459.6	3331.0	3255.3	3230.1
45°	12340.5	9571.8	3926.1	2904.8	3111.6	3497.4	3535.2	3318.4	3129.2	2970.4	2930.0
47.5°	13200.3	9824.0	3474.7	2685.5	2967.9	3429.3	3482.3	3202.4	2952.7	2746.0	2713.2
50°	14171.1	10169.4	3124.2	2536.7	2856.9	3368.8	3434.4	3083.9	2788.8	2559.4	2534.2
52.5°	15061.2	10356.0	2821.6	2403.0	2748.5	3257.8	3371.3	2998.1	2627.5	2372.8	2350.1
55°	15547.9	10053.4	2524.1	2271.9	2599.7	3114.1	3283.1	2879.6	2471.1	2274.4	2241.7
57.5°	15613.4	9428.1	2254.3	2130.7	2443.4	2937.6	3119.2	2735.9	2370.3	2206.4	2178.6
60°	15106.6	8495.1	2045.0	2014.7	2284.5	2738.4	2935.1	2609.8	2266.9	2130.7	2103.0
62.5°	13845.8	7481.4	1898.7	1908.8	2123.1	2529.1	2798.9	2488.8	2168.5	2047.5	2022.3
65°	11677.3	6175.3	1757.5	1800.4	1979.4	2365.2	2675.4	2387.9	2070.2	1984.5	1961.8
67.5°	8111.8	4458.1	1641.5	1686.9	1843.3	2198.8	2531.6	2279.5	1959.2	1913.9	1878.6
70°	4490.9	2743.4	1505.4	1558.3	1702.0	2012.2	2370.3	2115.6	1797.9	1777.7	1727.3
72.5°	2360.2	1747.4	1351.6	1409.5	1510.4	1772.6	2123.1	1936.6	1639.0	1553.3	1487.7
74°	1843.3	1432.2	1248.2	1308.7	1376.8	1631.4	1976.9	1808.0	1525.5	1424.7	1374.2
75°	1606.2	1275.9	1159.9	1238.1	1298.6	1535.6	1863.4	1717.2	1462.5	1366.7	1321.3
77.5°	1134.7	955.7	948.1	1041.4	1074.2	1346.5	1679.4	1563.4	1303.6	1202.8	1159.9
80°	796.8	716.1	751.4	809.4	854.8	1190.2	1558.3	1351.6	1069.1	950.6	935.5
82.5°	519.4	469.0	537.1	590.0	605.2	877.5	1258.3	1026.3	779.2	632.9	587.5
85°	239.5	234.5	307.6	300.1	297.5	428.7	746.4	600.1	448.8	335.4	315.2
87.5°	60.5	58.0	75.6	63.0	75.6	65.6	68.1	17.7	2.5	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)